

In the Claims

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22. (Amended) A protein, produced by expression of recombinant DNA in a host cell and substantially free of other contaminating proteins, [and] comprising a pair of polypeptide chains disulfide bonded to form a dimeric species, each of said pair of polypeptide chains having [which has] less than [about] 200 amino acids in a sequence sufficiently duplicative of the sequence of COP-5 or COP-7, such that [said pair of polypeptide chains, when disulfide bonded to produce a] said dimeric species has a conformation capable of inducing bone and [or] cartilage formation when implanted in a mammal in association with a matrix [when implanted in a mammal].

Add the following claim.

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14 --96. The protein of claim 22 having a half maximum bone-forming activity of at least 20-25 ng per 25 mg of matrix.--

REMARKS

Following entry of this amendment, the claims pending in this application are: claims 22-26, 28, 29, 34, 35, 45, 50, 51, 81, 82, 85, 86 and 96.

Claim 22 has been amended to more particularly define Applicants' invention. Basis for the amendment appears, for example, in Table 7, on p. 80 of the specification. New claim 96 has been added to describe another embodiment of the invention. The claim differs from claim 22 in requiring high osteogenic activity, i.e., at least 25-50 ng per 25 mg matrix using, for example, optimal osteogenic device formulation and implant conditions. Basis for new claim 96 appears, for example, on p. 78, lines 8-12 of the specification. No new matter has been added by this amendment.

9/8/85